Performance Data Sheet

AWG5528EVA

General Information

Model	AWG5528EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	6750	5920					
	Watts	1040	1080					
	Amps	5.40	5.54					
	Lb/h	86.9	79.6					
-10	Btu/h	8010	7150	6290				
	Watts	1120	1170	1190				
	Amps	5.75	5.92	6.03				
	Lb/h	103	95.3	87.7				
-5	Btu/h	9400	8480	7570	6670			
	Watts	1190	1240	1280	1300			
	Amps	6.08	6.29	6.44	6.52			
	Lb/h	120	112	105	96.4			
0	Btu/h	10900	9940	8960	8000	7050		
	Watts	1260	1320	1360	1400	1410		
	Amps	6.39	6.63	6.82	6.96	7.03		
	Lb/h	138	131	123	114	106		
5	Btu/h	12600	11500	10500	9440	8410		
	Watts	1320	1390	1440	1490	1520		
	Amps	6.66	6.95	7.19	7.37	7.50		
	Lb/h	158	151	143	134	125		
10	Btu/h	14400	13300	12100	11000	9900	8780	7660
	Watts	1370	1450	1520	1580	1620	1640	1650
	Amps	6.91	7.24	7.53	7.77	7.96	8.09	8.17
	Lb/h	180	172	164	155	146	136	125
15	Btu/h	16400	15200	13900	12700	11500	10300	9080
	Watts	1420	1510	1590	1660	1720	1760	1780
	Amps	7.12	7.51	7.85	8.14	8.39	8.60	8.74
	Lb/h	204	196	187	178	168	158	147
20	Btu/h	18600	17200	15900	14600	13300	11900	10600
	Watts	1460	1560	1650	1740	1810	1870	1910
	Amps	7.31	7.74	8.14	8.50	8.81	9.08	9.30
	Lb/h	229	221	212	203	193	182	170

25	Btu/h	21000	19500	18100	16600	15200	13700	12300
	Watts	1500	1610	1710	1810	1900	1980	2040
	Amps	7.46	7.95	8.40	8.82	9.20	9.55	9.85
	Lb/h	257	248	239	229	219	208	196
30	Btu/h	23500	22000	20400	18800	17300	15700	14100
	Watts	1530	1650	1770	1880	1980	2080	2160
	Amps	7.59	8.13	8.64	9.12	9.58	9.99	10.4
	Lb/h	287	277	268	258	247	235	223
35	Btu/h	26300	24600	22900	21200	19500	17800	16100
	Watts	1550	1680	1810	1940	2060	2180	2280
	Amps	7.67	8.27	8.85	9.40	9.92	10.4	10.9
	Lb/h	319	309	299	289	277	265	252
40	Btu/h	29300	27500	25600	23800	22000	20100	18300
	Watts	1560	1710	1850	2000	2140	2270	2400
	Amps	7.72	8.38	9.03	9.65	10.2	10.8	11.4
	Lb/h	353	343	333	322	310	297	284
45	Btu/h	32600	30600	28600	26600	24600	22600	20600
	Watts	1570	1730	1890	2050	2210	2360	2510
	Amps	7.74	8.46	9.17	9.87	10.5	11.2	11.8
	Lb/h	390	380	369	357	345	332	318
50	Btu/h	36100	33900	31800	29600	27500	25300	23100
	Watts	1560	1740	1910	2090	2270	2440	2610
	Amps	7.72	8.51	9.29	10.1	10.8	11.6	12.3
	Lb/h	430	419	408	396	383	369	354
55	Btu/h	39900	37500	35200	32900	30500	28200	25800
	Watts	1550	1740	1930	2130	2320	2520	2710
	Amps	7.66	8.51	9.37	10.2	11.1	11.9	12.7
	Lb/h	472	461	449	436	423	409	393

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.952885E+04	5.414161E+02	2.658634E+00	2.044322E+02
C2	4.213379E+02	1.188296E+01	2.646635E-02	3.932260E+00
C3	-1.185539E+02	8.819988E+00	6.315948E-02	-1.037144E+00
C4	4.461292E+00	-2.010244E-01	-9.654411E-04	3.673960E-02
C5	-1.197655E+00	-1.260585E-01	9.114465E-06	9.940855E-04
C6	1.696210E-01	2.990497E-02	-1.757056E-04	4.318458E-03
C7	1.569225E-02	-5.270091E-04	-1.504271E-06	1.642597E-04
C8	-1.936041E-02	1.217126E-03	5.205277E-06	-6.880772E-05
C9	-1.071592E-03	1.696317E-03	4.787238E-06	-2.388141E-05
C10	-4.050341E-04	-3.577875E-04	-3.928706E-07	-2.112104E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWG5528EVA

General Information

Model	AWG5528EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	7060	6160					
	Watts	1310	1330					
	Amps	5.17	5.18					
	Lb/h	91.0	82.7					
-10	Btu/h	8690	7720	6770				
	Watts	1410	1440	1450				
	Amps	5.55	5.60	5.62				
	Lb/h	111	103	94.3				
-5	Btu/h	10500	9430	8400	7390			
	Watts	1500	1540	1560	1580			
	Amps	5.90	6.00	6.06	6.09			
	Lb/h	134	125	116	107			
0	Btu/h	12400	11300	10200	9080	7980		
	Watts	1590	1630	1670	1690	1710		
	Amps	6.23	6.37	6.48	6.56	6.61		
	Lb/h	157	149	139	130	120		
5	Btu/h	14600	13300	12100	10900	9720		
	Watts	1670	1720	1770	1810	1840		
	Amps	6.53	6.72	6.88	7.01	7.11		
	Lb/h	183	174	165	155	144		
10	Btu/h	16900	15600	14200	12900	11600	10300	9010
	Watts	1740	1810	1870	1920	1960	1990	2010
	Amps	6.80	7.04	7.25	7.44	7.60	7.72	7.81
	Lb/h	211	202	192	182	171	159	147
15	Btu/h	19400	18000	16500	15100	13700	12200	10800
	Watts	1810	1890	1960	2030	2080	2130	2170
	Amps	7.05	7.34	7.60	7.84	8.06	8.24	8.39
	Lb/h	241	231	221	211	200	188	175
20	Btu/h	22100	20500	19000	17400	15900	14300	12800
	Watts	1880	1960	2050	2130	2200	2260	2320
	Amps	7.28	7.61	7.93	8.23	8.50	8.74	8.95
	Lb/h	273	263	253	242	230	218	205

25	Btu/h	25000	23300	21600	20000	18300	16600	14900
	Watts	1930	2030	2130	2230	2310	2390	2460
	Amps	7.48	7.86	8.23	8.58	8.91	9.22	9.49
	Lb/h	307	297	286	275	263	250	237
30	Btu/h	28200	26300	24500	22700	20800	19000	17200
	Watts	1980	2100	2210	2320	2420	2520	2610
	Amps	7.65	8.09	8.51	8.92	9.30	9.67	10.0
	Lb/h	343	333	322	310	298	285	271
35	Btu/h	31600	29600	27600	25600	23600	21600	19600
	Watts	2030	2150	2280	2400	2520	2640	2750
	Amps	7.79	8.28	8.76	9.23	9.67	10.1	10.5
	Lb/h	382	371	360	348	335	322	307
40	Btu/h	35200	33000	30900	28700	26600	24400	22200
	Watts	2060	2200	2340	2480	2620	2750	2880
	Amps	7.91	8.46	8.99	9.51	10.0	10.5	11.0
	Lb/h	423	412	400	388	375	361	346
45	Btu/h	39000	36700	34400	32000	29700	27400	25100
	Watts	2080	2240	2390	2550	2710	2860	3010
	Amps	8.01	8.60	9.19	9.77	10.3	10.9	11.4
	Lb/h	467	455	443	431	417	403	387
50	Btu/h	43100	40600	38100	35600	33100	30600	28100
	Watts	2100	2270	2440	2610	2790	2960	3130
	Amps	8.07	8.72	9.37	10.0	10.6	11.3	11.9
	Lb/h	513	501	489	475	462	447	431
55	Btu/h	47400	44800	42100	39400	36700	34000	31300
	Watts	2110	2290	2480	2670	2860	3060	3250
	Amps	8.11	8.82	9.52	10.2	10.9	11.6	12.3
	Lb/h	562	550	537	523	509	493	477

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.269232E+04	1.145739E+03	4.326954E+00	2.367416E+02
C2	5.473796E+02	1.087316E+01	6.897752E-03	5.204903E+00
C3	-1.460380E+02	4.111215E+00	2.881576E-02	-1.277598E+00
C4	4.915439E+00	-1.793369E-01	-6.342329E-04	4.048149E-02
C5	-1.608248E+00	-3.246529E-02	4.872432E-04	-1.306120E-03
C6	2.784928E-01	4.284346E-02	-2.705180E-05	5.726405E-03
C7	1.067103E-02	-5.734404E-04	-2.965938E-07	9.976884E-05
C8	-1.720904E-02	9.774803E-04	1.671637E-06	-3.441304E-05
C9	-1.467212E-03	1.329804E-03	2.621714E-06	-1.928058E-05
C10	-6.908510E-04	-3.171815E-04	-4.547662E-07	-2.676116E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature